

Accounting for Bonds 101 WASBO Accounting Conference

March 17, 2022 | 9:40-10:30am

Baird Public Finance

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School Business Solutions Products & Services











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Budgeting tools that let you plan proactively

- Comprehensive school finance forecast
- "What-if" scenarios for school budget, levy, referendum planning and more
- Grab-and-go charts and graphs for communications

BAIRD VIDEO LIBRARY

More than 100 interactive school finance videos in an easy-to-grasp format

- Increase your team's school business knowledge and efficiency
- Toolkits for any board, community, lunch-and-learn or team meeting
- Ideal for training, continuing education and talent development

BAIRD SCHOOL ANALYTICS

Sortable, searchable state and district data – right at your fingertips

- Up-to-date school statistics to help you make data-driven decisions
- Visuals and high-level summaries for board and community presentations
- Tools to identify the factors most closely tied to academic performance in your district

BUSINESS OFFICE TRAINING/CONSULTING

Training and consulting from Baird's school business experts

- Training, mentoring and stand-in services, on-site or remote
- Auditing, reporting, bank reconciliations and operational referendum
- Board and community presentations

School Banking Team



Referendum planning

Debt monitoring and analysis

Capital improvement planning

Investment alternatives

Planning

Debt Issuance

Financing alternatives

Market analysis

Debt structuring options

Credit rating consultation

Document and disclosure guidance

Municipal Bond Market Access

National sales force

Diverse investors

Active in all types of fixed income securities

Dedicated purchaser of cash flow notes

Learning Objectives



AT THE END OF THE PRESENTATION, ATTENDEES WILL:

- Understand municipal market interest rate indicators
 - > Economic update
 - > Interest rate trends and forecast
 - ➤ Interest rate volatility
- Identify where and when to update DPI debt schedules
- Recognize debt transactions and coding guides



Municipal Interest Rate & Economic Update

Bonds and Inflation



What is inflation and why is it bad for interest rates?

- Bond investors receive a fixed interest payment for a stated period of time
- Increases in inflation reduce the value of a dollar received in the future
- Increases in inflation lead to an increase in interest rates

Current inflationary pressure:

- Fiscal stimulus and relief packages related to COVID:
 - Cares Act \$2.3 trillion
 - American Rescue Plan \$1.9 trillion
 - Inflation Investment & Jobs Act \$1.2 trillion
 - Potentially, Build Back Better
- Federal Reserve intervention
 - Increases in fed fund rates
 - Tapering of quantitative easing
- Pressure on consumer prices
 - Supply chain issues
 - Geo-political turmoil



What does this mean for your District?

A 10-basis point change in interest (i.e, 3.00% to 3.10%) on a \$20M, 20-year borrowing will change borrowing costs by approximately **\$250,000**.

Economic Highlights



Economic Update

- Last week saw an increase in jobless claims at 227k; 11k more than the previous week (3/10)
- The annual inflation rate increased to 7.9% in February, the highest rate since 1982 (3/10)
- US unemployment decreased to 3.8% in February, below market expectations of 3.9% (3/10)
- February saw the US average hourly earnings rise by \$0.02, following increases in previous months (3/10)
- The US economy grew by almost 7% in Q4, well above the expected 5.5% (12/31)

The Federal Reserve

- As the war between Russia and Ukraine continues, and with another increase in inflation to 7.9%, consumer prices for gas, food and other products continue rising (3/3)
- This week, the Fed is expected to raise interest rates by 0.25% to combat increasing inflation. Experts predict up to five rate hikes in 2022 (3/10)

Interest Rate Forecast



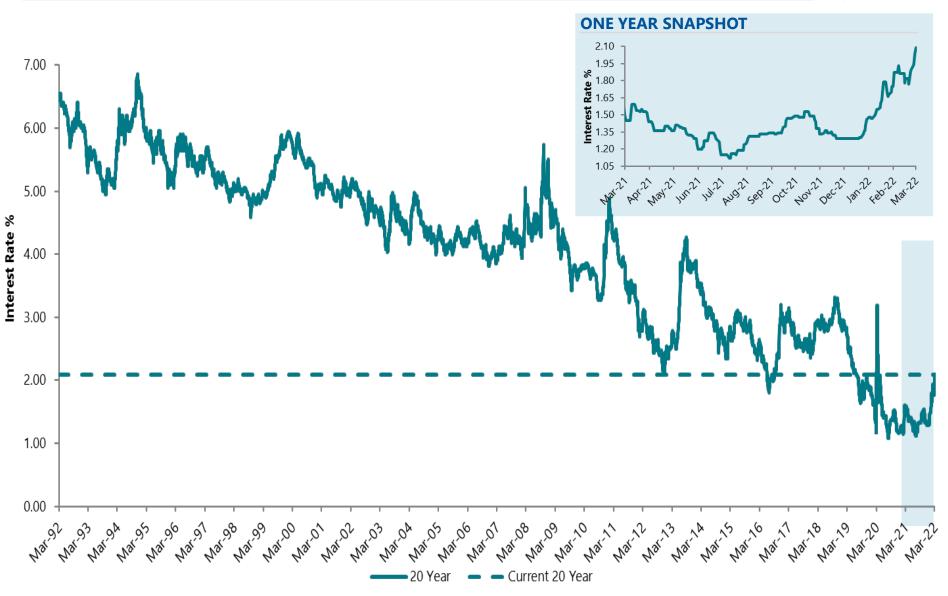
INTEREST RATES IN 2022:

- Federal Reserve announced a doubling of the pace of QE tapering and projection of five rate hikes in 2022.
- Certain tax related items such as adjusting the state and local tax (SALT) deduction could reemerge in a variation of the Build Back Better bill and there exists the potential for raising tax rates to offset spending, which would be expected to bolster the allure of tax-exempt municipal bonds.
- Federal policy changes could alter the tax-exempt interest rate outlook, including changes to tax rates and resumption of tax-exempt advance refundings, which would likely materially increase new issue volumes and lift municipal interest rates.
- Rising treasury rates could act to suppress taxable advance refundings causing total taxable issuance to decline.

		2022					2023				
	3/10	Q1*	Q2*	Q3*	Q4*	Q1*	Q 2*	Q3*	Q4*	Q1*	
Fed Funds Upper	0.25	0.50%	0.95%	1.25%	1.50%	1.75%	1.95%	2.10%	2.20%	2.20%	
Fed Funds Lower	0.00	0.25%	0.69%	0.98%	1.24%	1.50%	1.70%	1.84%	1.95%	1.96%	
2-Year Treasury	1.72	1.46%	1.63%	1.77%	1.89%	2.04%	2.18%	2.25%	2.32%	2.34%	
5 -Year Treasury	1.92	1.74%	1.89%	1.99%	2.08%	2.19%	2.31%	2.35%	2.41%	2.49%	
10-Year Treasury	1.98	1.90%	2.07%	2.17%	2.29%	2.36%	2.48%	2.52%	2.58%	2.66%	

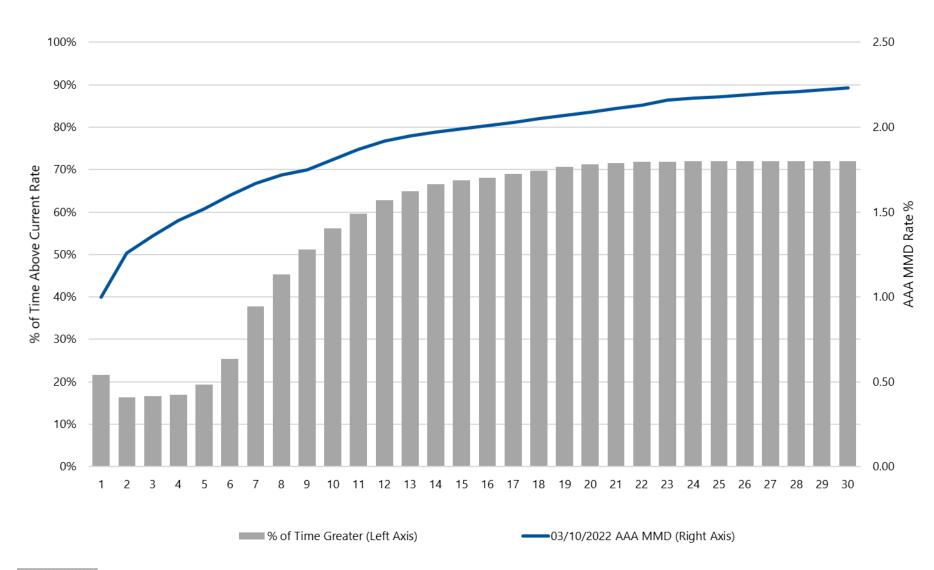
Tax-Exempt Interest Rates 30-YEAR LOOKBACK





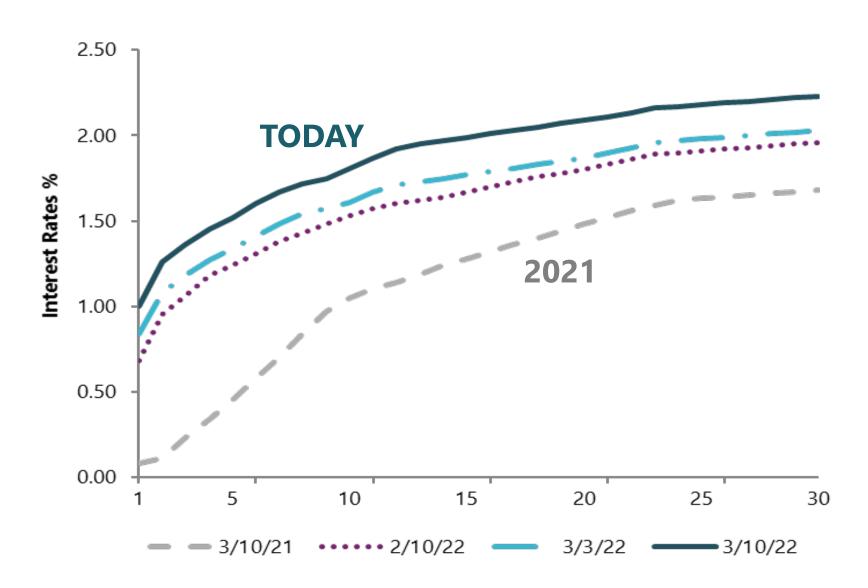
Percent of Time We Have Been Above Current Rates 10-YEAR LOOKBACK





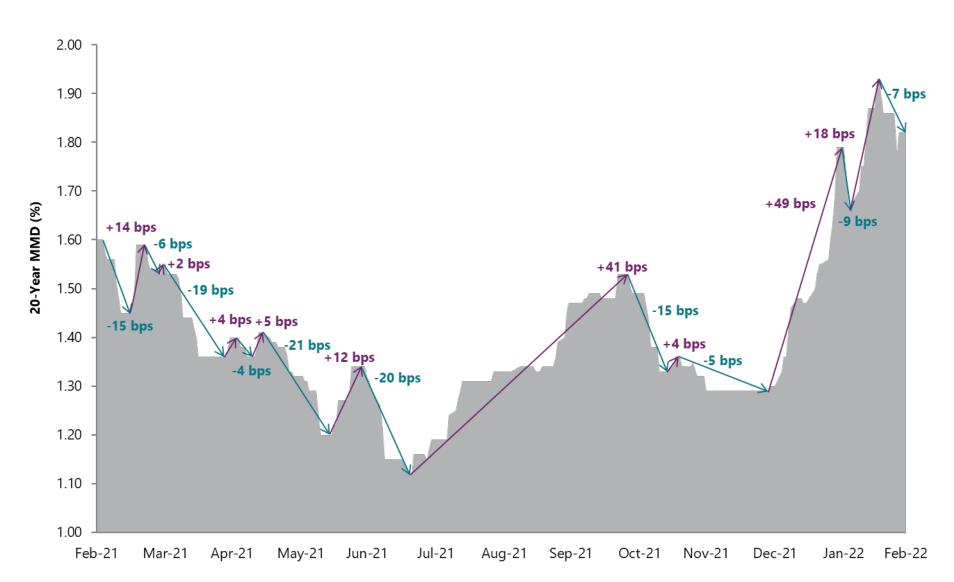
What Does "Flattening Yield Curve" Mean?





Volatility in Tax-Exempt Interest Rates ONE-YEAR SNAPSHOT

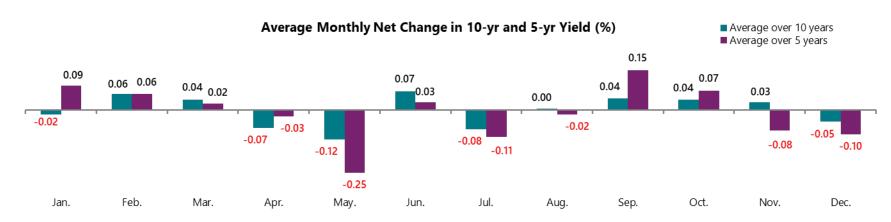




Bloomberg Heat Map



		2006-2022										
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2022	0.52	0.03										
2021	0.02	0.42	-0.05	-0.10	0.00	0.03	-0.16	0.09	0.20	0.09	-0.16	-0.01
2020	-0.30	-0.21	0.47	0.00	-0.63	0.04	-0.22	0.17	0.04	0.10	-0.23	-0.03
2019	-0.13	-0.05	-0.25	0.01	-0.24	-0.03	-0.09	-0.27	0.21	0.01	0.01	-0.01
2018	0.36	0.11	-0.01	0.06	-0.10	0.04	0.01	-0.02	0.15	0.14	-0.21	-0.23
2017	-0.04	-0.01	-0.04	-0.10	-0.26	0.06	-0.07	-0.06	0.17	0.03	0.18	-0.20
2016	-0.27	0.02	0.00	-0.10	-0.02	-0.27	0.09	-0.02	0.09	0.23	0.76	-0.16
2015	-0.32	0.33	-0.12	0.13	0.19	0.06	-0.07	-0.09	-0.12	-0.02	0.00	-0.07
2014	-0.02	-0.08	0.03	-0.18	-0.29	-0.07	-0.08	-0.08	0.06	-0.11	0.12	-0.14
2013	-0.01	0.05	0.09	-0.20	0.23	0.80	0.05	0.20	-0.36	-0.07	0.05	0.12
2012	-0.14	0.02	0.28	-0.22	-0.03	0.06	-0.21	0.12	0.00	-0.01	-0.22	0.26
2011	0.10	-0.30	0.08	-0.15	-0.39	-0.11	0.24	-0.57	-0.12	0.44	-0.21	-0.37
2010	-0.02	-0.16	0.19	-0.13	-0.10	0.05	-0.33	-0.43	0.18	0.17	0.42	0.34
2009	-0.64	0.04	0.17	-0.29	-0.01	0.34	-0.20	-0.08	-0.31	0.41	-0.19	0.11
2008	-0.38	0.46	-0.03	0.01	-0.03	0.23	-0.13	-0.15	0.43	0.33	-0.28	-0.29
2007	0.13	-0.19	0.06	0.04	0.09	0.22	-0.12	0.03	-0.20	-0.04	-0.08	0.01
2006	0.00	0.02	0.19	0.13	-0.08	0.17	-0.19	-0.17	-0.11	0.03	-0.12	0.11



Source: Bloomberg as of February 28, 2021



Business Office Nuts and Bolts

Entering Debt into the Debt Portal





		L	ong-Term I	Debt Issues -	All Debt			
<u>Name</u>	<u>Debt Type</u> A ↓	<u>Fund</u>	<u>Function</u>	Issue Date	Maturity Date	Original Amount	Current Balance	Payment Schedule
	Bond Issue	39	281	03/01/1998	09/01/2012	\$1,340,000.00	\$0.00	<u>View</u>
WRS REFINANCING	Bond Issue	38	281	08/01/2003	03/01/2017	\$460,000.00	\$0.00	View
9,950,000 GO SCHOOL BUILDING BONDS	Bond Issue	39	281	03/04/2008	09/01/2028	\$9,950,000.00	\$0.00	View
\$5,650,000 General Obligation Refunding Bonds, Series 2016	Bond Issue	39	281	04/13/2016	09/01/2026	\$5,650,000.00	\$2,670,000.00	View
POOL RENOVATION	Note	38	281	03/03/2021	12/01/2030	\$585,325.15	\$555,418.99	View
PHASE II 2008	State Trust Fund Loan	39	281	08/26/2009	03/15/2024	\$1,050,000.00	\$0.00	View





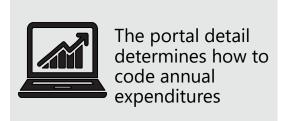


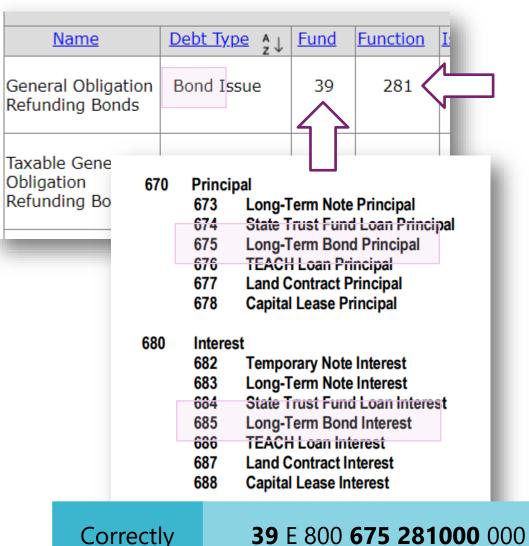
File Path: SFS Homepage (dpi.wi.gov/sfs) / SAFR Reporting Portals / Log In to View or Submit Data / <log in> / Financial Data Home / Debt Schedules (PI-1505-DEBT)



Entering Debt into the Debt Portal







Correctly Coded:

39 E 800 **675 281000** 000 **39** E 800 **685 281000** 000

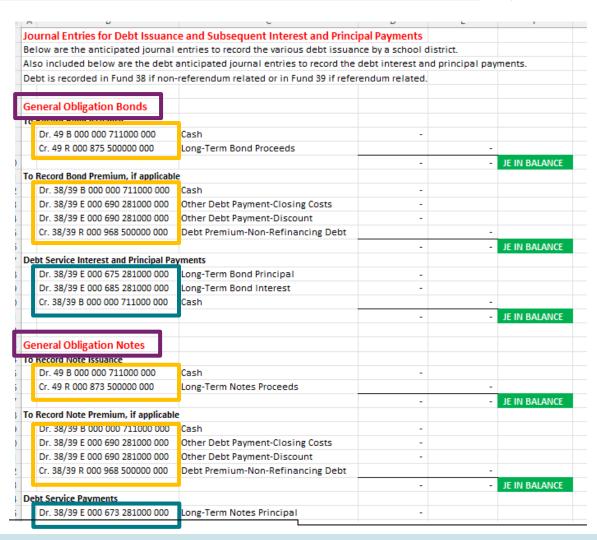
Coding Debt Transactions – Initial Borrowing



DPI Coding Guide









<u>Baird Video Library Video – Coding Debt Issues</u>

Coding Debt Transactions – Defeasance / Prepayment



DPI Coding Guide

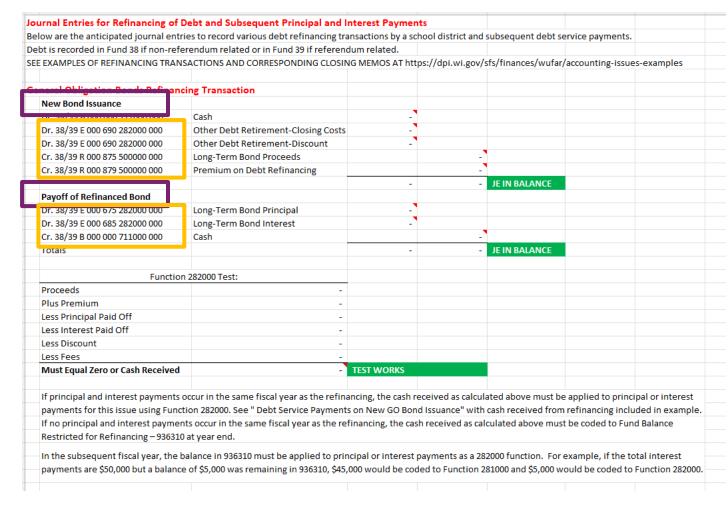
Journal Entries for Debt Issuanc	e and Subsequent Interest and Princip	pal Payments		
Below is the anticipated journal en	try to record the defeasance of debt by a s	chool district.		
Defeasance uses levied cash on har	nd to make prepayment of debt principal a	nd interest. It		
removes a portion of the remaining	debt as a legal liability of the District onc	e the escrow		
closes.	-			
Debt is recorded in Fund 38 if non-r	eferendum related or in Fund 39 if refere	ndum related.		
Bond Defeasance				
Dr. 38/39 E 000 675 281000 000	Long-Term Bond Principal	-		
Dr. 38/39 E 000 685 281000 000	Long-Term Bond Interest	-		
Dr. 38/39 E 000 690 281000 000	Other Debt Retirement-Closing Costs	-		
Cr. 38/39 R 000 968 500000 000	Debt Premium-Non-Refinancing Debt		-	
Cr. 38/39 B 000 000 711000 000	Cash		-	
		-	-	JE IN BALANCE
Debt Schedule Adjustments				
The principal payment defeased	d should be included in the "Principal Pay	ments Scheduled'	column in SAFF	debt schedule.
The interest payment defeased	should be included in the "Interest Paym	ents Scheduled" (column in SAFR o	lebt schedule.
Remember to adjust future pay	ments per the new debt schedule provide	d during defeasa	nce.	
Debt schedule should equal 0 at	t end.			



Coding Debt Transactions – Refinancing



DPI Coding Guide





Coding Debt Transactions – Refinancing



DPI Coding Guide

PERIOD IN WHICH REFINANCIN	0.00	0.00	0.00	0.00	0.00	0.00
Period	Last Principal Balance	Principal Payments Scheduled	Interest Payments Scheduled	Refinanced Principal Adjustment	Refinanced Interest Adjustment	New Principal Balance
e Bond debt schedule you are refina	ncing should be adjusted to look like th					
PERIOD IN WHICH REFINANCIN OCCURS	0.00	0.00	0.00	0.00	0.00	0.00
Period	Last Principal Balance	Principal Payments Scheduled	Interest Payments Scheduled	Refinanced Principal Adjustment	Refinanced Interest Adjustment	New Principal Balance
low is an example of the first line in	cluding the coding for cash received dur	ring refinancing.				
ne district needs to enter a new debt	schedule for the new debt issued. See '	'Enter IT Debt in 9	SAFR Tah"			
		-	-	JE IN BALANCE		
Cr. 38/39 B 000 000 711000 000	Cash		-			
Dr. 38/39 E 000 685 282000 000	Long-Term Bond Interest					
Dr. 38/39 E 000 675 281000 000 Dr. 38/39 E 000 685 281000 000	Long-Term Bond Principal Long-Term Bond Interest	-				
ebt Service Payments on New GO Bo						



Summary / Final Notes



DPI and Baird Resources to support transaction entry



Revenue = Debt Proceeds (+ others) Expenditures = Project Costs



Revenue = Tax Levy (+ others) Expenditures = Debt Payments



Questions?



Important Disclosures



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